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SIEMENS CORPORATION INTELLECTUAL PROPERTY LAW DEPARTMENT 170 WOOD AVENUE SOUTH ISELIN, NJ 08830

2635
DATE MAILED: 09/08/2004

ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	pplicant(s)	•	
		10/079,665	DESAI ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Vernal U Brown	2635		
Period fo	The MAILING DATE of this communication Reply	on appears on the cover s	heet with the correspondence add	dress	
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICAT ansions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day to period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by the reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, tion. s, a reply within the statutory minimu, y period will apply and will expire SIX by statute, cause the application to be	r, may a reply be timely filed Im of thirty (30) days will be considered timely (6) MONTHS from the mailing date of this co	mmunication.	
Status	·				
1)⊠	Responsive to communication(s) filed or	n <u>28 June 2004</u> .	1		
2a)⊠	This action is FINAL . 2b)	2b)☐ This action is non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims	•			
5) <u> </u>	Claim(s) <u>1 and 4-33</u> is/are pending in the 4a) Of the above claim(s) is/are w Claim(s) <u>30-33</u> is/are allowed. Claim(s) is/are rejected. Claim(s) <u>7</u> is/are objected to. Claim(s) are subject to restriction	ithdrawn from considerati			
Applicat	ion Papers	•			
10)	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) object to the drawing(s) be held in correction is required if the d	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 CF		
Priority (under 35 U.S.C. § 119			-	
12)[_ a)	Acknowledgment is made of a claim for f All b) Some * c) None of: 1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International I See the attached detailed Office action for	uments have been receive uments have been receive ne priority documents have Bureau (PCT Rule 17.2(a)	ed. ed in Application No be been received in this National).	Stage	
Attachmen	t(s)				
2) Notice No	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO er No(s)/Mail Date	948) Pa /SB/08) 5) 🔲 No	erview Summary (PTO-413) per No(s)/Mail Date tice of Informal Patent Application (PTO ner:	l-152)	
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DETAILED ACTION

This action is responsive to communication filed on June 28, 2004.

Response to Amendment

The examiner has acknowledged the amendment of claims 1, 4, 6, 7, 11, 12, 14, 17, 18, 19, 21, 23, 24, 25, 28, 30, 33.

Response to Arguments

Regarding applicant's argument concerning amplitude shift keyed wake up signal, the reference of Rotzoll is relied upon for teaching a receiver using an amplitude shift keyed signal to switch the receiver from a sleep mode to an active mode (col. 5 lines 59-65).

Regarding applicant's argument concerning the reference of Thomas, the reference of Thomas is relied upon for teaching a tire monitoring system connected to the valve stem of the vehicle tire (col. 3 lines 49-55).

Regarding applicant's argument concerning the combination of the reference of Stewart et al. and walker et al., Stewart et al. teaches a tire monitoring system having a learning mode for discerning between signals from sensor assemblies disposed on other motor vehicles (col. 3 lines 41-60). The reference of Walker et al. is further relied upon for teaching a tire monitoring system comparing the acceleration value obtained from the sensor assembly with a vehicle acceleration value to distinguish between sensor assemblies disposed on another motor vehicle and discerning the specific position of the tire on the vehicle (col. 3 lines 25-35).

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Claim Objections

Claim 7 is objected to because of the following informalities: Claim 7 used the term "wake up single", it is suggested the word single be change to signal. Appropriate correction is required.

Claims 15-16 are objected to because of the following informalities:

A series of singular dependent claims is permissible in which a dependent claim refers to a preceding claim which, in turn, refers to another preceding claim.

A claim which depends from a dependent claim should not be separated by any claim which does not also depend from said dependent claim. It should be kept in mind that a dependent claim may refer to any preceding independent claim. In general, applicant's sequence will not be changed. See MPEP § 608.01(n).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 1, 4-7, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mendez et al. U.S Patent 5463374 in view of Ghabra et al. U.S Patent 6650236 and further in view of Rotzoll U.S Patent 6760578.

Regarding claims 1 and 4, Mendez et al. teaches a system for monitoring conditions within a tire comprising; a sensor assembly disposed within each tire of a motor vehicle (col. 3 lines 26-30), a transmitter (14) in communication with the sensor assembly to transmit signals indicative of current tire conditions (col. 3 lines 30-32); a remote transmitter (16) for actuating a remote keyless entry system (col. 3 lines 35-40); a receiver assembly for receiving said signal indicative of said current tire conditions and said signal to actuate a function from said remote transmitter and signal indicative of said tire conditions is different than said signal to actuate a function of said remote keyless entry system(col. 3 lines 39-41). Mendez et al. teaches modulating the transmitted signal (col. 4 lines 46-48) and also teaches a sleep mode to minimize energy consumption (col. 3 lines 57-60) but is silent on teaching the transmitter in communication with the sensor in the tire to transmit a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal. Mendez et al. is also silent on teaching the transmission of an amplitude shift-keying wake up signal. Ghabra et al. in an art related tire monitoring and keyless entry system teaches the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency (col. 4 lines 58-66) and amplitude

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shift keyed signal (col. 5 lines 22-23). The use of an amplitude modulated wake-up signal is further evidenced by Rotzoll (col. 5 lines 59-65).

It would have been obvious to one of ordinary skill in the art for the transmitter in communication with the sensor in the tire to transmit a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal, the receiver receives the frequency and amplitude shift keyed signal, and transmit a amplitude shift-keying wake up signal in Mendez et al. as evidenced by Ghabra et al. because Mendez et al. suggests a combine tire monitoring and keyless entry system having a sleep mode and further transmitting modulated signals and Ghabra et al. teaches the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal in order to enable the receiver to consistently received data from the transmitter. Rotzoll further teaches the use of amplitude shift keying as a suitable modulation scheme for a wake up signal.

Regarding claim 5, Mendez et al. teaches the use of speed as a triggering event (col. 4 lines 7-10).

Regarding claim 6, Mendez et al. teaches the receiver is engaged to receive signal relating to the tire at speed above certain threshold (col. 4 lines 7-12) and teaches a switch (44) actuated when the tire reaches a certain speed and the receiver received signal for speed above 25 mph (col. 4 lines 7-9). Mendez et al. teaches modulating the transmitted signal (col. 4 lines 46-48) but is silent on teaching the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the

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remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal. Ghabra et al. in an art related tire monitoring and keyless entry system teaches the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal (col. 4 lines 58-66).

It would have been obvious to one of ordinary skill in the art for the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal in Mendez et al. as evidenced by Ghabra et al. because Mendez et al. suggests a combine tire monitoring and keyless entry system and Ghabra et al. teaches the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal.

Regarding claim 15, Mendez et al. teaches a system for monitoring conditions within a tire (col. 3 lines 26-35) but is silent on teaching the sensor assembly includes a temperature sensor. Ghabra et al. in an art related tire monitoring and keyless entry system teaches the monitoring the parameter relating to the tire which includes temperature (col. 7 lines 10-12).

It would have been obvious to one of ordinary skill in the art for the sensor assembly to include a temperature sensor in Mendez et al. as evidenced by Ghabra et al.

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because Mendez et al. suggests a system for monitoring conditions within a tire and Ghabra et al. teaches monitoring the parameter relating to the tire which includes temperature in order to warn the driver of any abnormal situation.

Claims 8-10 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mendez et al. U.S Patent 5463374 in view of Ghabra et al. U.S Patent 6650236 in view of Rotzoll U.S Patent 6760578 and further in view of McClelland U.S Patent 5963128.

Regarding claims 8-10, Mendez et al. in view of Ghabra et al. in view of Rotzoll teaches the transmitter send signal at regular intervals (col. 4 lines 10-13) but is silent on teaching the interval varies in response to the speed and the interval is greater at speeds above said predetermined speed threshold than below said predetermined speed threshold. McClelland in an art related remote tire pressure monitoring system teaches the interval varies in response to the speed and the interval is greater at speeds above said predetermined speed threshold than below said predetermined speed threshold (col. 6 lines 1-25). McClelland also teaches interval increases in response to variation of pressure within one of the tires (col. 5 lines 50-65).

It would have been obvious to one of ordinary skill in the art to vary the interval in response to the speed and the interval is greater at speeds above said predetermined speed threshold than below said predetermined speed threshold in Mendez et al. in view of Ghabra et al. as evidenced by McClelland because Mendez et al. in view of Ghabra et al. teaches the transmitter send signal indicating the monitored status of the tire at regular

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intervals and McClelland teaches the interval varies in response to the speed and the interval is greater at speeds above said predetermined speed threshold than below said predetermined speed threshold in order to increase the monitoring of the tire at higher speed. McClelland also teaches interval increases in response to variation of pressure within one of the tires in order to quickly warn the driver of an abnormal change in tire pressure.

Regarding claim 11-13, Mendez et al. teaches the transmitter send signal to the receiver indicating the status of the tire (col. 4 lines 10-13) and Ghabra et al. teaches amplitude shift keyed receiver for receiving transmission (col. 4 lines 58-66) but is silent on teaching a plurality of data frames sent at random time intervals to prevent repeated overlap of transmissions from two or more of said sensor assemblies. McClelland in an art related remote tire pressure monitoring system teaches a plurality of data frames sent at random time intervals to prevent repeated overlap of transmissions from two or more of said sensor assemblies (col. 5 lines 18-40).

It would have been obvious to one of ordinary skill in the art to have a plurality of data frames sent at random time intervals to prevent repeated overlap of transmissions from two or more of said sensor assemblies in Mendez et al. in view of Gabra et al. as evidenced by McClelland because Mendez et al. in view of Ghabra et al. suggests the transmitter send signal to the receiver indicating the status of the tire and McClelland in an art related remote tire pressure monitoring system teaches a plurality of data frames sent at random time intervals to prevent repeated overlap of transmissions from two or more of said sensor assemblies.

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Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mendez et al. U.S Patent 5463374 in view of Ghabra et al. U.S Patent 6650236 and further in view of Thomas et al. U.S Patent 4734674.

Regarding claim 14, Mendez et al. teaches a system for monitoring conditions within a tire comprising; a sensor assembly disposed within each tire of a motor vehicle (col. 3 lines 26-30, a transmitter (14) in communication with the sensor assembly to transmit signals indicative of current tire conditions (col. 3 lines 30-32); a remote transmitter for actuating a remote keyless entry system (col. 3 lines 35-40); a receiver assembly for receiving said signal indicative of said current tire conditions and said single to actuate a function from said remote transmitter and signal indicative of said tire conditions is different than said signal to actuate a function of said remote keyless entry system(col. 3 lines 39-41). Mendez et al. teaches modulating the transmitted signal (col. 4 lines 46-48) and also teaches a sleep mode to minimize energy consumption (col. 3 lines 57-60) but is silent on teaching the transmitter in communication with the sensor in the tire to transmit a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal. Mendez is also silent on teaching a valve stem that is disposed at an angle relative to the sensor assembly. Ghabra et al. in an art related tire monitoring and keyless entry system teaches the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency (col. 4 lines 58-66) and amplitude shift

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keyed signal (col. 5 lines 22-23). Thomas et al. in an art related tire pressure warning system teaches a valve stem lockable at a desired pivoted position (col. 9 lines 16-22) at an angle to the detector (figure 6).

It would have been obvious to one of ordinary skill in the art for the transmitter in communication with the sensor in the tire to transmit a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal, the receiver receives the frequency and amplitude shift keyed signal, and transmit a amplitude shift-keying wake up signal in Mendez et al. as evidenced by Ghabra et al. because Mendez et al. suggests a combine tire monitoring and keyless entry system having a sleep mode and further transmitting modulated signals and Ghabra et al. teaches the transmitter in communication with the sensor in the tire transmits a frequency shift keyed signal and the remote transmitter for actuating the remote keyless entry system emit amplitude shift keyed signal and the receiver receives the frequency and amplitude shift keyed signal in order to enable the receiver to consistently received data from the transmitter. Thomas et al. further teaches a tire monitoring system that includes a valve stem for sensing the tire pressure.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mendez et al. U.S Patent 5463374 in view of Ghabra et al. U.S Patent 6650236 in view of Rotzoll U.S Patent 6760578 and further in view of Robillard et al. U.S Patent 6259361.

Regarding claim 16, Mendez et al. in view of Ghabra in view of Rotzoll teaches detecting the speed of the vehicle (col. 4 lines 7-10) but is silent on teaching the sensor assembly includes an accelerometer. Robillard et al. in an art related tire monitoring

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system teaches the sensor assembly includes an accelerometer in order to detect the change in speed of the vehicle.

It would have been obvious to one of ordinary skill in the art to for the sensor assembly to includes an accelerometer in Mendez et al. in view of Ghabra et al. in view of Rotzoll as evidenced by Robillard et al. because Mendez et al. in view of Ghabra et al. in view of Rotzoll suggests detecting the speed of the vehicle and Robillard et al. teaches the sensor assembly includes an accelerometer in order to detect the change in speed of the vehicle.

Claims 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mendez et al. U.S Patent 5463374 in view of Ghabra et al. U.S Patent 6650236 in view of Stewart et al. U.S Patent 6043738 and further in view of Walker et al. U.S Patent 5192929.

Regarding claims 17-18, Mendez et al. in view of Ghabra et al. teaches a system for monitoring conditions within a tire to the extent as claimed with respect to claim 14 above but is silent on teaching a learning mode for discerning between signals from sensor assemblies disposed on other motor vehicles; said learning mode compares an acceleration value obtained from said sensor assembly with a vehicle acceleration value to distinguish between sensor assemblies disposed on another motor vehicle. Stewart et al. in an art related tire monitoring system teaches a learning mode for discerning between signals from sensor assemblies disposed on other motor vehicles (col. 3 lines 41-60) but is also silent on teaching the learning mode compares an acceleration value obtained from said sensor assembly with a vehicle acceleration value to distinguish between sensor assemblies disposed on another motor vehicle. Walker et al. in an art

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related tire monitoring system teaches comparing the acceleration value obtained from the sensor assembly with a vehicle acceleration value to distinguish between sensor assemblies disposed on another motor vehicle and discerning the specific position of the tire on the vehicle (col. 3 lines 25-35).

It would have been obvious to one of ordinary skill in the art to have a learning mode for discerning between signals from sensor assemblies disposed on other motor vehicles; said learning mode compares an acceleration value obtained from said sensor assembly with a vehicle acceleration value to distinguish between sensor assemblies disposed on another motor vehicle in Mendez et al. in view of Ghabra et al. as evidenced by Stewart et al. in view of Walker et al. because Mendez et al. in view of Ghabra et al. suggests a system for monitoring conditions within a tire and Stewart et al. in view of Walker et al. teaches a system for monitoring a tire which includes a learning mode for discerning between signals from sensor assemblies disposed on other motor vehicles and other vehicles.

Claims 19-22 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ghabra et al. in view of Rotzoll U.S Patent 6760578.

Regarding claims 19-20, Ghabra et al. teaches a receiver assembly (34) for receiving signals indicative of tire conditions for a tire pressure monitoring system and signals initiating activation of a specific function for a remote keyless entry system (col. 6 lines 39-46) comprising;

an amplitude shift keyed receiver (col. 5 lines 22-23); a frequency shift keyed receiver (col. 4 lines 58-66). Ghabra et al. also teaches the receiver receives incoming signals in response to the triggering event of speed (col. 4 lines 36-47). Ghabra et al. is

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however silent on teaching the frequency shift keyed receiver is responsive to an amplitude shift keyed wake-up signal from the tire pressure monitoring system. Rotzoll in an art related communication system teaches the use of an amplitude shift keyed wake-up signal (col. 5 lines 59-65) in order to switch a receiver from a sleep mode to an active mode.

It would have been obvious to one of ordinary skill in the art for the frequency shift keyed receiver is responsive to an amplitude shift keyed wake-up signal from the tire pressure monitoring system in Ghabra et al. as evidenced by Rotzoll because Ghabra et al. suggests a receiver for receiving amplitude shift keyed signal periodically receiving tire monitoring data and Rotzoll teaches a receiver implementing an active and sleep mode in order to conserver power and the receiver is switch from a sleep mode using amplitude shift keyed wake-up signal.

Regarding claim 21, Ghabra et al. teaches the tire pressure monitoring system includes a sensor assembly, the sensor assembly including a transmitter emitting the signal indicative of tire conditions, said signal is a frequency shift keyed transmission (col. 4 lines 63-65).

Regarding claim 22, Ghabra et al. teaches a remote keyless entry system includes a remote transmitter (20), said remote transmitter emitting an amplitude shift keyed transmission (col. 5 lines 22-23).

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Claims 23-24 and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ghabra et al. U.S Patent 6650236 in view of Rotzoll U.S Patent 6760578 in view of Mendez et al. U.S Patent 5463374.

Regarding claims 23-24 and 32-33, Ghabra et al. in view of Rotzoll teaches monitoring the speed of the vehicle (col. 4 lines 36-47) but is silent on teaching receiver is engaged to receive incoming signals for speeds below a predetermined speed threshold of said motor vehicle and said frequency shift keyed receiver is engaged to receive incoming signals for speeds above said predetermined speed threshold. Mendez et al. in an art related tire monitoring invention teaches the receiver is engaged to receive signal relating to the tire at speed above certain threshold (col. 4 lines 7-12) and teaches a switch (44) actuated when the tire reaches a certain speed (col. 4 lines 7-9).

It would have been obvious to one of ordinary skill in the art for the receiver to receive incoming signals for speeds below a predetermined speed threshold of said motor vehicle and said frequency shift keyed receiver is engaged to receive incoming signals for speeds above said predetermined speed threshold in Ghabra et al. in view of Rotzoll as evidenced by Mendez et al. because Ghabra et al. in view of Rotzoll suggests monitoring the speed of the vehicle and Mendez et al. teaches the receiver is engaged to receive signal relating to the tire at speed above certain threshold and teaches a switch actuated when the tire reaches a certain speed.

Claims 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al. U.S Patent 6043738 in view of Weinzerl et al. U.S Patent 5357798.

Regarding claims 25 and 27, Stewart et al. teaches a method of determining a position of sensor assemblies for a tire pressure monitoring system of a motor vehicle and

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recording the sensor assembly identification code (col. 3 lines

recording the sensor assembly identification code (col. 3 lines 36-40) and also teaches the use of speed of the vehicle to discriminate the transmission from other vehicles (col. 3 lines 61-67) but is silent on teaching the method of determining the position of the sensor comprising transmitting a signal indicative of tire acceleration to a receiver assembly, obtaining data indicative of motor vehicle speed from a vehicle system, comparing the signal indicative of tire acceleration with the data indicative of motor vehicle acceleration and recording the sensor assembly identification code in response to the signal indicative of tire acceleration being substantially equal to the data indicative of motor vehicle acceleration. Weinzerl et al. in an art related invention of vehicle safety devices teaches the use of the comparison between the acceleration calculated from the rotational wheels speed with the acceleration measured by the vehicle as a suitable control means (col. 2 lines 7-11).

It would have been obvious to one of ordinary skill in the art to the position of the sensor comprising transmitting a signal indicative of tire acceleration to a receiver assembly, obtaining data indicative of motor vehicle speed from a vehicle system, comparing the signal indicative of tire acceleration with the data indicative of motor vehicle acceleration and recording the sensor assembly identification code in response to the signal indicative of tire acceleration being substantially equal to the data indicative of motor vehicle acceleration in Stewart et al. as evidenced by Weinzerl et al. because Stewart et al. teaches a method of determining a position of sensor assemblies for a tire pressure monitoring system and the use of speed of the vehicle to discriminate the transmission from other vehicles and Weinzerl et al. teaches the use of the comparison

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between the acceleration calculated from the rotational wheels speed with the acceleration measured by the vehicle as a suitable control and identifying means.

Claims 26 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stewart et al. U.S Patent 6043738 in view of Weinzerl et al. U.S Patent 5357798 and further in view of Niekerk et al. U.S patent 6463798.

Regarding claim 26, Stewart et al. in view of Weinzerl et al. teaches a method of determining the position of sensor assemblies for a tire pressure monitoring system of a motor vehicle and recording the sensor assembly identification code (col. 3 lines 36-40) but is silent on teaching of relearning the sensor assembly position in response to the motor vehicle remaining stationary for a predetermined period of time. Niekerk et al. in an art related tire monitoring system teaches the tire monitoring system enters a relearn mode when the vehicle is started (col. 4 lines 37-40).

It would have been obvious to one of ordinary skill in the art to relearning the sensor assembly position in response to the motor vehicle remaining stationary for a predetermined period of time in Stewart et al. in view of Weinzerl et al. as evidenced by Niekerk et al. because Stewart et al. in view of Weinzerl et al. suggests learning the position of sensor assemblies for a tire pressure monitoring system of a motor vehicle and Niekerk et al. teaches the tire monitoring system enters a relearn mode when the vehicle is started and the vehicle is started in the stationary mode.

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Allowable Subject Matter

Claims 7 and 30-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 7, the prior art of record fail to teach or suggests the amplitude shift keyed wake up signal initiates a switch from the amplitude switch key receiver to the frequency shift keyed receiver.

Regarding claims 30-33, the prior art fail to teach or suggests switching from the amplitude shift keyed receiver to the frequency shift receiver in response to a triggering event and the triggering event includes receiving an amplitude shift keyed wake up signal from the tire pressuring monitoring system.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vernal U Brown whose telephone number is 703-305-3864. The examiner can normally be reached on 8:30-6:30 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 703-305-4704. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vernal Brown

September 6, 2004

MICHAEL HORABIK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2000

Michael Hould